

8/29/2018

Denali Water  
Cindy Duenes  
2001 Key Street  
Colton, CA, 92324

Ref: Analytical Testing  
Report Number: 18-233-0200  
Project Description: LS

Dear Cindy Duenes:

Waypoint Analytical Virginia, Inc. received sample(s) on 8/21/2018 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Sub-contracted testing is noted on the Sample Summary Table if applicable.

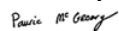
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Pauric McGroary  
Agronomist

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.*

Arizona AZ0629  
Florida E871087

New Jersey  
North Carolina

VA011  
257

Pennsylvania  
South Carolina

68-03109  
93007

Virginia 460014





Client: Denali Water  
Project: LS  
Lab Report Number: 18-233-0200  
Date: 8/29/2018

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**CASE NARRATIVE**

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**Metals Analysis Method 6010D**

Sample 62363

Analyte: As

QC Batch No: L396818

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range. Due to the analyte concentration being less than 25 times the method quantitation limit (MQL) a post digestion spike was performed and the recovery was within the method limits. No matrix interference is suspected.

Analyte: Fe

QC Batch No: L397056

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range due to the analyte concentration being greater than 25 times the method quantitation limit (MQL). A dilution test was performed and the recovery was within the method limits. No matrix interference is suspected.

Analyte: K

QC Batch No: L396818

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range due to the analyte concentration being greater than 25 times the method quantitation limit (MQL). A dilution test was performed and the recovery was within the method limits. No matrix interference is suspected.

Analyte: S

QC Batch No: L396818

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range due to the analyte concentration being greater than 25 times the method quantitation limit (MQL). A dilution test was performed and the recovery was within the method limits. No matrix interference is suspected.

**Sample Summary Table**

**Report Number:** 18-233-0200

**Client Project Description:** LS

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
62357	LS	Solids	08/16/2018 11:00	08/21/2018		
62357	LS	Solids	08/16/2018 11:00	08/21/2018	SM-4500-NH3C	WTN
62357	LS	Solids	08/16/2018 11:00	08/21/2018	9045D	WTN
62357	LS	Solids	08/16/2018 11:00	08/21/2018	4500NO3F-2011	WTN
62357	LS	Solids	08/16/2018 11:00	08/21/2018	6010D	WTN
62357	LS	Solids	08/16/2018 11:00	08/21/2018	SW-7471B	WTN
62357	LS	Solids	08/16/2018 11:00	08/21/2018	SM-4500-NH3C-TKN	WTN
62357	LS	Solids	08/16/2018 11:00	08/21/2018	SM-2540G	WTN

Report Number: 18-233-0200

Account Number: 11035



7621 Whitepine Road, Richmond, VA 23237  
Main 804-743-9401 ° Fax 804-271-6446  
www.waypointanalytical.com

Send To: Denali Water  
Cindy Duenes  
2001 Key Street  
Colton , CA 92324

Project : LS

Lab Number : 62357

Sample Id : LS

### REPORT OF ANALYSIS

Date Sampled: 8/16/2018 11:00:00

Date Received: 08/21/2018 00:00

Date Reported: 09/21/2018

PARAMETER	RESULT (%)	RESULT (mg/kg)	QUANTITATION LIMIT (mg/kg*)	ANALYST	ANALYSIS DATE/TIME	METHOD
Total Solids *	16.90	169000	1000	CJH	08/22/2018 15:59	SM-2540G
Moisture *	83.10		1000	CJH	08/22/2018 15:59	SM-2540G
Total Kjeldahl Nitrogen	7.75	77500	120	CLP	08/27/2018 12:40	SM-4500-NH3C-TKN
Phosphorus	2.25	22500	100	BKN	08/28/2018 05:06	6010D
Potassium	0.14	1420	100	BKN	08/28/2018 05:06	6010D
Sulfur	1.91	19100	100	BKN	08/28/2018 05:06	6010D
Calcium	3.33	33300	200	BKN	08/28/2018 05:06	6010D
Magnesium	0.38	3840	100	BKN	08/28/2018 05:06	6010D
Sodium	0.20	1970	500	BKN	08/28/2018 05:06	6010D
Iron		15100	100	KKM	08/28/2018 20:15	6010D
Aluminum		3760	100	BKN	08/28/2018 05:06	6010D
Manganese		154	10.0	BKN	08/28/2018 05:06	6010D
Copper		480	5.00	BKN	08/28/2018 05:06	6010D
Zinc		1250	10.0	BKN	08/28/2018 05:06	6010D
Ammonia Nitrogen	1.24	12400	50.0	ZBD	08/24/2018 08:00	SM-4500-NH3C
Organic N	6.51	65100	120		08/24/2018 08:00	CALCULATION
Nitrate+Nitrite-N		30.3	4.34	ZBD	08/24/2018 13:47	4500NO3F-2011

All values are on a dry weight basis except as noted by asterisk. Detection limit on all N series is on a wet basis.

A handwritten signature in black ink that reads "Paucic McGroary".

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Paucic McGroary  
Agronomist

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Project : LS

Lab Number : 62357

Sample Id : LS

### REPORT OF ANALYSIS

Date Sampled: 8/16/2018 11:00:00

Date Received: 08/21/2018 00:00

Date Reported: 09/21/2018

PARAMETER	RESULT (%)	RESULT (mg/kg)	QUANTITATION LIMIT (mg/kg*)	ANALYST	ANALYSIS DATE/TIME	METHOD
Cadmium		<2.00	2.00	BKN	08/28/2018 05:06	6010D
Chromium		28.8	5.00	BKN	08/28/2018 05:06	6010D
Nickel		22.1	5.00	BKN	08/28/2018 05:06	6010D
Lead		15.1	6.00	BKN	08/28/2018 05:06	6010D
Arsenic		<10.0	10.0	BKN	08/28/2018 05:06	6010D
Mercury		0.444	0.0159	KKM	08/24/2018 16:56	SW-7471B
Selenium		<10.0	10.0	BKN	08/28/2018 05:06	6010D
pH *	7.6			RMW	09/20/2018 13:42	9045D
Molybdenum		13.3	5.00	BKN	08/28/2018 05:06	6010D

Comments:

All values are on a dry weight basis except as noted by asterisk. Detection limit on all N series is on a wet basis.

A handwritten signature in black ink that reads "Paucic McGroary".

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Paucic McGroary  
Agronomist

**Cooler Receipt Form**

Customer Number: **11035**  
Customer Name: **Denali Water**  
Report Number: **18-233-0200**

**Shipping Method**

☒ Fed Ex      ☐ US Postal      ☐ Lab      ☐ Other :   
☐ UPS      ☐ Client      ☐ Courier      Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Water - Sample containers properly preserved	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)	<input type="checkbox"/> Low concentration EnCore samplers (48 hr)		
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)	<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:



## SAMPLE TRANSMITTAL FORM/CHAIN OF CUSTODY

A&amp;L Eastern L

7621 Whitepine Road Richmond VA 23237 Tel: 804-74

18-233-0200  
11035  
08-21-2018  
11:18:45Denali Water  
LSAccount #  
11035

Customer Information

Submitted By

C

Denali Water Solutions

Denali Water Solutions

Franklin Ave STEA

Franklin Ave STEA

chrisamarks@comcast.net

Riverside CA 92507

Riverside CA 92507

jrsaint@gmail.com

Project

## Sample Information

Sample ID	Lab Number (Lab Use Only)	Collection Information			Container Information			Please Check Desired Tests								Test Package		
		Type	Date	Time	Number of Bottles	Type	Volume	SL1	SL2	503 Metals	Nitrogen Series	pH	CCE	Ag	Cl		Volatile Solids	
LS	W35X	<input checked="" type="checkbox"/> Grab ___ Composite	8/16/2018	1100	1	<input type="checkbox"/> Glass ___ Plastic	___ oz ___ pint ___ qt											SLSOSO
MBC		<input checked="" type="checkbox"/> Grab ___ Composite	8/16/2018	1200	1	<input type="checkbox"/> Glass ___ Plastic	___ oz ___ pint ___ qt											SLSOSO
SLR		<input checked="" type="checkbox"/> Grab ___ Composite	8/16/2018	1130	1	<input type="checkbox"/> Glass ___ Plastic	___ oz ___ pint ___ qt											SLSOSO
		<input checked="" type="checkbox"/> Grab ___ Composite				<input type="checkbox"/> Glass ___ Plastic	___ oz ___ pint ___ qt											SLSOSO

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time
Joel Santos (signature)	8/16/2018	1200			
Feddy	8/20/18				

## Test Package Details

SL1: Total Solids (Moisture) Total Kjeldahl Nitrogen, Phosphorus and Potassium

SL2: Basic Test SL1 plus Sulfur, Calcium, Manganese, Sodium, Iron, Aluminum, Manganese, Copper And Zinc  
503 Metals: Arsenic, Cadmium, Chromium, Mercury, Molybdenum, Lead, Nickel, Selenium,  
(Copper & Zinc included in SL2)Nitrogen Series: Total Kjeldahl, Ammonium, Nitrate & Organic Nitrogen.  
CCE: Calcium Carbonate Equivalent or Total neutralization Value (For Lime Treated Sludge)

## Special Instructions or Remarks

Rec COL via email 8/21/18  
No ice